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PERCENTILE FOINTS OF ORDER STATISTICS IN

SAMPLES FROM BETA, NORMAL, CHI (1 D.F.) FOPULATIONS

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PERCENTILE IOINTS OF ORDER STAILSTICS IN SAMPLES FROM BETA, NORMAL, CHI (1 D.F.) POPULATIONS

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O. ABSTRACT

If p(x,i,N) denotes the x^{th} probability point of i^{th} smallest order statistic in remion samples of size N drawn from the Beta distribution, p(x,i,N) is computed accurate to eight decimal places for N=1(1)3C(5)60, i=1(1) 1+[N/2] and x=0.01, 0.025, 0.10, 0.25, 0.50, 0.75, 0.90, 0.775, 0.99. Also, the 25th, 50th and 75th percentile points of the Beta distribution for N=65(5)100, i=1(1) 1+[N/2] are computed with the same accuracy. Using the above values the percentile points of the normal, chi (1 d.f.) and Weibull order statistics in samples of sizes up to and including 30 are computed accurate to 4 or 5 decimal places. Applications of these tables are indicated.

1. INTRODUCTION

Pearson [9] has provided extensive tables of the incomplete Beta distribution. It was realized that certain percentage points of the incomplete

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Beta distribution were more useful than the complete distribution of the incomplete Beta. Thompson [10] tabulated the percentage points of the incomplete Beta distribution accurate to five significant figures for $v_1 = 1(1)10$, 12, 15, 20, 24, 30, 40, 60, 120; $v_2 = 1(1)30$, 40, 60, 120, ∞ ; $\alpha = 0.605$, 0.01, 0.025, 0.05, 0.10, 0.25, 0.50 where v_1 and v_2 denote the parameters of the Beta distribution and lpha denotes the percentage. Comrie and Hartley [2] g. e methods of interpolation in the tables of Thompson [10]. Cochran [1] gave an approximate formula for the percentage points of the incomplete Beta distribution, for large values of its parameters. Eisenhart et al [3] tabulated accurate to five significant figures, the percentile points of the median in samples from the uniform distribution of size: N = 3(2)15(10)95 and for $\alpha = 0.001, 0.005, 0.01, 0.025, 0.05, 0.10, 0.20, 0.25.$ Applying inverse interpolation in Pearson's [97 tables, Gupta [5] tabulated the percentile points of the order statistics in samples drawn from the gamma population with even degrees of freedom. Leone et al [8] tabulated the percentile points of the binomial distribution for sample sizes N = 10(5)100 and $\alpha = 0.0025$, 0.005, 0.01, 0.025, 0.05, 0.1, 0.9, 0.95, 0.975, 0.99, 0.995, 0.9975. Using Thompson's [10] and other values, Fisenhart [4] tabulated accurate to five significant figures the probability points of order statistics in random samples of size N from a uniform distribution, for N = 1(1)10 and for $\alpha = 0.001, 0.005, 0.01, 0.025, 0.05, 0.10,$ 0.20, 0.25, 6.50.

Some rank order test statistics for instance, Terry's c1-test statistic and Fraser's [5] test for symmetry, are linear sums of expected values of order statistics in samples from standard normal and standard positive normal populations respectively. In the place of the expected values of order statistics, one could use the percentile points of the order statistics. Hence, it is of interest to prepare tables of the percentage points of order statistics in samples from a uniform distribution. The percentage points of order statistics

in samples drawn from any continuous population can be obtained by taking the inverse of the percentage points of the uniform order statistics, with respect to the cumulative distribution function of the underlying continuous population.

2. NOTATION

Let $X_{1,N} \leq X_{2,N} \leq \ldots \leq X_{N,N}$ be the order statistics in random samples of size N drawn from a continuous population having F(x) for its cumulative distribution function (c.d.f.). Let $p(\alpha,i,N)$ cenote the α^{th} percentage point of $X_{i,N}$. Then $p(\alpha,i,N)$ is given by the relation

That is

$$z_{\mathbf{p}}(\mathbf{i},\mathbf{i}+\mathbf{i}+\mathbf{l}) = \sum_{j=1}^{n} \left(\frac{1}{j} \right) \mathbf{F}^{*}(\mathbf{i}/\alpha,\mathbf{i},\mathbf{l}) \left[\mathbf{1} - \mathbf{F}^{*} \mathbf{p}(\mathbf{i},\alpha,\mathbf{l}) \right] \mathbf{I}^{n-\frac{1}{2}} = \alpha . \tag{2.2}$$

Thus, one can find $p(\alpha,i,N)$ by solving Equation (2.2) for $F(p(\alpha,i,N))$ and then taking its inverse with respect to F. A similar approach was made by Leone et al [8] for computing the percentiles of the binomial distribution. Unless otherwise stated, p denotes $p(\alpha,i,N)$. Throughout Φ denotes the standard normal c.d.f. given by

$$\Phi(\mathbf{x}) = (2\pi)^{-\frac{1}{2}} \int_{-\infty}^{\mathbf{x}} e^{-t^2/2} dt.$$
 (2.3)

3. METHODS OF COMPUTATION

The percentage points of the uniform order statistics were computed by Newton-Raphson iteration using the following polynomial representation for the relation when N and i are integral:

$$\sum_{j=1}^{N} {\binom{n}{j}}^{-1}(\alpha,i,k) [1-c(\alpha,i,k)]^{N-1} \propto .$$

The derivative of the left hand side expression of the above equation is evaluated from its integral representation given in (2.1). Double precision arithmetic was used when necessary to obtain eight decimal accuracy, that is, iteration was continued until the absolute difference between two iterations was less than 10^{-9} . Since the percentage points of the uniform order statistics are roots of certain polynomials which constitute upper tails of the binomial distribution, our values given in Table 1 are related to the percentile points of the binomial distribution given by Leone et al [8]. The values of Leone et al [8] agree with our value to at least seven decimal places. In Table 1, the percentage points of the uniform order statistics are presented for N = 1(1)30(5)60, i = 1(1) 1+[N/2] and $\alpha = 0.01$, 0.025, 0.10, 0.25, 0.50, 0.75, 0.90, 0.975, 0.99. The values for i > 1+[N/2] are obtained by using the relation

$$B_{1-p}$$
 (N+1-i, i) = 1 - $B_p(i,N-i+1)$. (3.1)

The percentage points of order statistics in random samples from any continuous population can be obtained by taking the inverse of the percentage points of the uniform order statistics with respect to the c.d.f. of the population.

Thus, the percentage points of the normal order statistics are given by

$$x(p,i,N) = \Phi^{-1}(p(\alpha,i,N))$$
(3.2)

Also, the c.d.f. of the positive normal (chi l â.f.) distribution is related to the normal c.d.f. by

$$\chi(x) = 2\Phi(x) - 1, \qquad x > 0.$$

$$= 0 \qquad \text{otherwise.}$$
(1.3)

The percentage points of the chi-order statistics are given by

$$x(p,i,N) = \Phi^{-1} ((1+p)/2).$$
 (3.4)

Hasting's [7] approximation to Φ was used. This approximation is given by

$$\varphi(x) = 1 - e^{-x^2/2} = \sum_{k=1}^{5} \alpha_k \eta^k, \qquad x \ge 0$$

where
$$\eta = (1 + 2^{-\frac{1}{2}} \times b)^{-1}$$
 $b = 0.32759110$
 $a_1 = 0.12741479$
 $a_2 = -0.14224838$
 $a_3 = 0.71070690$
 $a_4 = -0.72657604$
 $a_5 = 0.53070273$,

when x > 0, the approximation is obtained by considering $1 - \Phi(-x)$. After using this approximation for Φ , Newton-Raphson iteration was used to solve for x(p,i,N). The percentage points of normal order statistics accurate to four decimal places are given in Table 2 for N = 1(1)30, $i = 1(1) \ 1+[N/2]$. The other values can be obtained by symmetry. The percentage points of the chi-order statistics accurate to four decimal places are presented in Table 3 for N = 1(1)30, i = 1(1)N. The percentage points of the Weibull order statistics are given by

$$x(p,i,N) = (-\ln p)^{1/c}$$
 (3.5)

where c denotes the shape parameter of the Weibull distribution, the c.d.f. of which is given by 1-exp(-x^c). The percentage points of the Weibull order statistics accurate to five decimal places are presented in Table 4 for

N = 1(1)30, i = 1(1)N, c = 2.0, 2.5 and 5.0.

Certain minor errors have been uncovered in the tables of Thompson [10]. These are presented in Table 3.1.

Table 3.1

⋖	i	ì	0urs	Thompson's
0.01	13	27	0.25722525	0.25722
0.01	1	30	0.00033495	0.00033496
0.025	4	15	0.07787154	0.077871
0.05	4	23	0.06167552	0.061675

All the computations were done on Burroughs 220. The computations of the tables presented here too about thirty hours of machine time.

4. APPLICATIONS

4.1 The percentile points of the uniform order statistics can be used to find the percentile points of the Fisher's F distribution. If $F_{\alpha,2m,2n}$ denotes the α^{th} percentage points on the F distribution with 2m,2n degrees of freedom, then

$$F_{\alpha,2m,2n} = n \ p(\alpha,m,m+n-1)/m[1-p(\alpha,m,m+n-1)]$$
 (4.1)

where p(x,m,n+m-1) is the xth percentage point of the mth smallest order statistic in random samples of size m+n-1 drawn from the uniform population on (0.1). Obviously, Table 1 is useful in life-testing problems as indicated by Leone et al [8] and in approximating the percentage points of the hypergeometric distribution as suggested by Thompson [10].

An application of the percentile points of the chi-order statistics is as follows: consider a random variable X having the density function given by

$$f(x,\theta) = (2/\pi)^{\frac{1}{2}} e^{-\frac{1}{2}(x-\theta)^2}, \quad x > \theta$$

= 0 otherwise.

Let $X_{1,N} \leq X_{2,N} \leq \ldots \leq X_{N,N}$ be the order statistics in a random sample of size N drawn from this population. We wish to test the hypothesis: $\theta = 0$ against the hypothesis: $\theta > 0$. $X_{1,N}$ can be a reasonable test statistic. The percentile points of the smallest chi-order statistic can be used to obtain the critical values of $X_{1,N}$.

Similarly, let $X_{1,N} \subseteq X_{2,N} \subseteq \ldots \subseteq X_{N,N}$ be the order statistics in a random sample of size N drawn from a Weibull population naving the following density function.

$$f(x,\theta) = c(x-\theta)^{c-1} e^{-(x-\theta)^{c}}, \quad x > \theta$$

$$= c \quad \text{otherwise,}$$

where c is assumed to be known exactly. Then, a reasonable test statistic for testing the hypothesis: $\theta=0$ against the hypothesis: $\theta>0$, could be $X_{1,N}$. In order to carry out the test procedure, the percentile points of the smallest Weibull order statistic are required.

5. CONCLUSION

Our tables are nore extensive and more accurate than tables available at present. No attempts were made to propose interpolation and extrapolation methods. The harmonic interpolation method proposed by Comrie and Hartley [2] is also applicable here but it involves use of special tables. Linear interpolation for a fixed percentage seems to give 3 to 4 decimal accuracy for N = 15.

REFERENCES

- [1] COCHMAN, W.G. (1940). Note on an approximate formula for the significance levels of 2. Ann. Math. Statist. 11, 93-95.
- [2] COMRIE, L.J. & HARTLEY, a.O. (1941). Table of Lagrangian coefficients for harmonic interpolation in certain tables of percentage points.

 Bioretrika, 32, 183-186.
- [3] ISETHARI, C., DEMING, L.S. & MARIN, C.S. (1948). The probability points of the distribution of the median in random samples from any continuous copulation. Abstract. Ann. Nath. Statist., 19 598-599.
- [4] ElSEMman, C. (1902). Personal con unication.
- [5] FRASER, D.A.S. (1957). Most powerful rank type tests. <u>Ann. Math. Statist</u>. <u>28</u>, 1040-1043.
- [6] GTPTA, S.S. (1960). Order statistics from the gamma distribution.

 <u>Jechnometrics</u> 2, 243-262.
- [7] MAS.11GS, er. C. (1955). approximations for digital computers. Princeton diversity Press, Princeton, N.J.
- [8] LEONE, F.C., WAYMAY, G.E., CHU J.T. & TOPP, C.W. (1960). Percentiles of the bluorial distribution. Report No. 1030, Statistical Laboratory, Case Institute of Technology, Cleveland, Ohio.
- [9] PEARSO", K. (1934). <u>Tables of the incomplete Beta function</u>. London. <u>Biometrika</u>.
- [10] M.M.PSON, C.M. (1941). Tables of the percentage points of the incomplete Beta function. <u>Biometrika</u>, 32, 151-181.

PERCENTILE POINTS OF THE SETA DISTRIBUTION

60.	00000006.	.78455653 .94109428	.854177224 .85413240	.60189088 .77792777 .89436316	.51584112 .70558633 .82693005	.48205253 .64336456 .76367595 .84772962	.42745867 .58994200 .70676748 .80179598	.4r0c1575 .54407769 .65631268 .74997755 .82907489	.15904266 .50415266 .61174286 .70288450	.14206678 .45981611 .5723281 .66041676 .73779808	.31870518 .43954254
\$46.	.84188607 .	.70759823 .	.60726437	.52182275 .0 .1154217	.45925813 .54123458 .77722196 .!	. 47812476 . 6787878 . 67897914	. 52650967 . 52650967 . 55085570 . 75513721	. 14626717 . 48249451 . 46000347 . 76070493 . 78709149	.44501612 .54600546 .45745785 .	41277997 41277997 5177585 66974256 4520958	.26464847 . .38479459 .
\$6*	.77619320	. 43159685 .	. 752717975	.45071973 .45740872 .81074462	.39303777 .58180343 .72866163	.34816346 .52070297 .65873856 .77467842	.41234398 .47067934 .59968934	.28317884 .42913555 .54964165 .65505863	.75886545 .39416330 .50690130 .47662376	.23840419 .36435949 .47008580 .56437419 .455138847	.22092219 .33868067
6	. 58377283	.53584112 .90419989	.41765861	.16904266 .5#189014 .753363*5	.31870793 .51031634 .56630561	.2Rn31433 .45256494 .59617973	.75~1^574 .4^624549 .53821543		.79567173 .44960489 .44960489 .45173484	-18866914 -11024345 -41515693 -51076059 -59947118	.17459581
27.	.50900000	.4701495;	.29789322 .54787820	.24214165 .45418061 .64056377	.20629947 .38947949 .5419875	.17966464 .36071023 .48609699 .62115156	.14910358 .1026974 .43320517 .56548612	.142756n2 .27726945 .19754108 .50199208	.17944944 .74744421 .45749615 .45749615	11940873 22662750 42668670 42047103 51107709 59842018	.10910128
ć.	122653620	-20629945 -50010000	.15910156 .285757585	.17944029 -114818-	.10910176 .76454996 .42140716	.00427634 .22848989 .36411611	.44015522	.17412529 .17661961 .28623667 .20308683	.06696697 .16226274 .24857472 .45.00997	.14795943 .14795343 .73578554 .77380446 .41189041	.13612569
\$ ~	.13397459	.09143071	.05939514	.19276243 .19276241 .35943616	.04691571 .16116292 .29691656	.04026419 .12797403 .25,197400	.12r42874 .12r42874 .22057714	.1716257 .17716257 .19567767 .29998587	.02825834 .09646385 .17557131 .24685661	.72541348 .09740905 .1597476 .7174716	.09028842
•10	.05131671	.03451067	.14289428 .14285442	.11727495	.01741491 .09259424 .20070887	.01493879 .07887344 .15953842	.01308272 .06862604 .14685433	.01163846 .06076.00. .12949731 .21039424	.01048074 .05452852 .11587526 .1875671	.1005a-40 .1047466 .1047496 .1697aa4 .2405a775	.00874161
ζ.	.02532057	.12595763	.00761145	.01020622 .07644038 .18925538	.00951244 .06284988 .15716117	.05347549 .05347549 .12875647	.04610115 .04618924 .11111271	.005683C4 .0102316 .00774687 .16875048	.00511610 .03677144 .08726463 .15002824	. 10646217 . 07882004 . 13607544 . 13607744	.00426532
360.	.01257912	.00840176	60636946 606758598	.10574495 .05774495 .14653780	.00421074 .04427187	.0036;030 .0366926 .09898827 .157		.0280914 .03814437 .03485463 .13699566	.00252458 .0252;373 .06573951 .12155226	.02284119 .02284119 .0221774 .1092644 .15748810	.0210759
ζ.	•00501256	. 16890411	.04199884	.n200805 .n3268211 .16563985	.0767465	.00144473 .02256507 .07080383 .1422748	.0124557 .01955787 .06053959	.01735646 .01735646 .05334824 .10526230	.01553814 .01553814 .04750700 .09321382	.01406508 .01406508 .04787291 .08366028 .144347672	.01284718
-	,	~ ~	~ ~	-04	-04	-0 r 2	- C r 3	~ N4 4 A		-ce36.0	- ^

TABLE 1

PERCENTILE POINTS OF THE BETA DISTRIBUTION

66.	.62219301 .62219301 .69759578	.29829617 .41282653 .50617072 .58775988 .66089956 .72711260	.28031433 .38909548 .4787648 .5566853 .62743469	26435775 36789056 45316633 5285:443 59689282 5971022 71771053	25010579 34883832 43049327 55893639 56897086 66859093	.23730141 .33163330 .40992343 .47942104 .54378762 .60251329
•		.298 .412 .506 .587 .727	.2803143 .3890954 .4787647 .556685 .6774366 .6920302	.7643577 .3678905 .4531663 .5285.44 .5968928 .6597102	.2501057 .3488383 .4304383 .5029363 .5689708 .6299454 .6865909	.2373 .3316 .4099 .4796 .5633 .6025
.975	.49413775 .57185824 .55112449	.24705234 .35029744 .45447105 .53813154 .51426260 .69422240	.73163576 .33868434 .42812816 .52797568 .59103533 .54861989	.71801936 .31948457 .40460270 .49089113 .55100124 .61619627 .67713023	.20590721 .30232074 .38347624 .4564. 55 .5737/142 .58667064 .64565391	.19506277 .28688940 .45441787 .49899377 .5995838
.95	.43810544 .52732660 .69913770 .68476221	.20581667 .31633974 .41009867 .49464973 .57261934 .64520072	.19263618 .29673424 .28538968 .46565661 .54000545 .60958513	.18103627 .27939619 .36348177 .43978444 .51075189 .57744366 .64063479	.17074972 .26395740 .4382520 .41657228 .48439642 .54834708 .66662583	.16156528 .25012445 .32619306 .39564143 .46054867 .52191769 .58029465
06.	.18552117 .47526650 .55900341 .63772404	.16232207 .25783571 .45977620 .44426338 .52342878 .59823836	.15165710 .25067480 .3721368 .41697713 .49196521 .54316769	.14230410 .23555885 .31723711 .39273347 .46.97088 .53177759 .59645683	.13403568 .22217203 .29956404 .37122224 .47892195 .50350994 .56544045	-12667384 -21021099 -28370181 -35186879 -41638919 -4785487 -59448970
.75	.30117890 .38877792 .47309370 .55465831	.10114895 .19405384 .27978683 .36148477 .44028416 .51670410	.00427634 .18103542 .26171924 .33774460 .41167601 .48351315	.1695050 .24495394 .31691098 .38652218 .45426429 .52038616	.08299596 .15961071 .23058919 .29848497 .36424000 .42830827 .428308377	.07831036 .21781141 .28207432 .34436893 .4658276
•50	.21668637 .29757561 .37852863	.05192249 .12579068 .20044860 .27527577 .35016336 .42507666	.04830485 .11702214 .18647410 .25608421 .3575116 .39544118	.10939610 .10939610 .23939339 .36967045 .36967045	.04239672 .10270302 .16365421 .22474459 .28588592 .34705038 .40822650	.09678160 .15421749 .21178500 .25940046 .35763812
•25	.14585204 .21616303 .28984706 .36631865	.02188633 .07409501 .13447707 .19912725 .26476124 .34581145	.0.033903 .06878994 .12475050 .18458705 .24709954 .31174146	.018996.64 .05419409 .11534765 .11703236 .21016965 .2901696731	.01781944 .05017407 .10898894 .15107953 .21538294 .27140648	.01678008 .05462805 .10251434 .15144034 .270240303 .25493304 .36380157
•10	.15418765 .15418765 .21868114 .28817244	.00807189 .04169104 .08799643 .14161108 .20050204 .26474025	.00749750 .02865873 .08147715 .12093941 .18513416 .24315700	.07699047 .07603698 .07585876 .17176877 .17195803 .27559130	.00656339 .C3374882 .07096636 .11380218 .16055945 .21041255	.017859 .05656754 .10681665 .1595692 .1595692 .24673684
•0•	•77187725 •12785065 •18102475 •26529981	.00393786 .02805337 .06604756 .11266577 .1656594 .22395441	.07599937 .07599937 .06110094 .10404731 .17271752 .20407344	.00341371 .02422573 .02665873 .09665873 .14164796 .19086470 .24372742	.02261877 .02261877 .05314597 .09025243 .13211095 .17776584 .22669156	.001301271 .02131763 .02989815 .08464508 .12377092 .21390815
\$20.	.05485064 .09924608 .15165273 .21094464	.00194563 .01920667 .05038107 .09092038 .13857934 .15223244	.00180678 .01779452 .04557028 .08148932 .12759843	.nnl68643 .n1657591 .n441199 .n7787154 .11824111 .15336432	.01551361 .01553361 .07266294 .11016995 .15198367 .15198367	.00148817 .01457932 .01798506 .06310774 .10313552 .14209747 .1444696
10.	.07589465 .07589465 .12146660 .17460978	.01192391 .03577522 .06945345 .11084485 .11084485	.00071767 .01095157 .03405638 .06402787 .10192861 .14568246	.01019918 .01072918 .05939019 .0445642 .1745463	.00057795 .00954358 .05938108 .08783773 .12575897	.00059102 .00896721 .02592322 .05188048 .08216584 .158917 .15523481
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PERCENTILE POINTS OF THE RETA DISTPIRUTION

- 0 - 0			.3103.956 .3103.956 .0028.557	.35n39483 .35n39483 .nn583624	.41992772 .41985272 .01585528	.50 .50000000 .500777816 .5205160	.58007729 .68007729 .07412529	.6496n517 .12007746	.95 .68917043 .15331755	• • • • • • • • • • • • • • • • • • • •	.975 .17188170 .18530197
00122691				.05286.36 .106286.36 .106286.36 .1064.01 .1854.0030 .231.20011 .231.20011	.05467686 .05676666 .10700276 .2473669 .2473669	.14580957 .14580957 .2557023810 .25577210 .4571747 .4727747	.14271645 .26534103 .26526695 .48634655 .46688700	.19946757 .76342406 .39441256 .396507118 .45507116 .51183409	.23766097 .31026197 .43888776 .40782875 .55404556 .5784470	. 72943 . 47120 . 474377 . 534801 . 59568	.77943K3 .4712044 .41417749 .47K37777 .534R0197 .49667475 .49764879
6 		212101101 2012101101 2012001 2012001 201201	. 0426.641 . 0426.486 . 0746.346 . 1749.646 . 1876.956 . 1876.966 . 1876.956 . 1876.956		.01577700 .01665703 .13555703 .1356576 .1375887 .2775887 .2775887 .2775887 .2775887			.1413121 .1876566 .21856680 .21856918 .21752691 .21866198 .42856419 .54137330 .54137330	.14586860 .27547425 .2759426 .41011027 .41579711 .41579471 .51189470	1066601 20678501 20678501 20678501 20678501 20678501 20678501 20678501 20678501 20678501 20678501 20678501 20678501	246691 374823 37445 37545 307935 30775 30776 36776
			1100 1138 1100 1130 1100 1100 1100 1130 1100 1130		201428474 204872128 21742224 21742224 21476023 221476023 237714462 246131302		.1700.950 .1700.950 .1847.681 .1847.681 .1847.641 .1846.724 .466.734 .466.734 .466.9844 .460.7348	.10874904 .18076797 .20417637 .20417681 .41489339 .4173939 .41739397 .4773918	.21¢10¢3¢ .21¢10¢16, .23¢169¢0 .4010¢310 .4010¢310 .55¢80¢0 .56¢80\$11 .56¢80\$15 .56¢80\$15	-16943467 -24573671 -37392683 -43661400 -44774618 -49218853 -49218853 -69477187	22 22 22 22 22 22 22 22 22 22 22 22 22
		.00120488 .01174032 .03048896 .014461766 .01260542 .14587694 .14587694 .257 .2043	. 171 2098 . 171 2098 . 171 2098 . 171 2048 . 172 2048 . 172 2048 . 2048 2044 . 2048 2044 . 2048 2044 . 2048 2044		.1134.473 .045.526.0 .127.737 .127.1425 .20518251 .224819205 .33456652 .48178644	.07244817 .07564362 .17731315 .17708954 .26573973 .256473973 .40628786 .45314318	.06368224 .17215237 .21717078 .21717078 .2876994 .37275596 .37275596 .47865743 .52582197	.;0184050 .;1294513 .27404681 .27404681 .3452735 .3471092 .44771092 .54416084 .54416084 .546604495	.13294591 .20672524 .2705170 .32971107 .43697637 .48738879 .58780133 .58780133	15109767 23415991 34377441 34377461 41165983 47165983 55175117 55067548 65976359	757 9001 750 700 700 700 700 700 700 700 700 700
22 1	.00045673	\$1051100*	+00232879	.00477766	.01299133	.03101553	•0690196•	.09937,98	+12730543	.15437251	152

DERCENTILE POINTS OF THE BETA DISTRIBUTION

66.	.27584047 .31049995 .44263144 .4975673 .5412057 .57054190 .57054765	.18145327 .25567091 .31445115 2668092 2681447 50919851 50919851 50919851 50919851	17459581 -2467451 -36165018 -3616963 -41181186 -459514921 -56814921 -56814937 -56676047 -666780497 -666780497	.16824623 .27,28606 .34678408 .39797280 .4467409 .59058141 .57106127
.975	2784440 29161274 40417210 40470362 50772120 59487744 59487444 5468304 61789575	14818513 21948429 23587914 33781189 43703073 5210110 5210110 5725504 61458104 61458104	27120168 27507780 3736176 3736171 4251728 6571962 6396645 6396645	201516517 20151691 1210184 46182845 461784 461784 4618885 4618885 51500072
• 95	.19412213 .25946653 .1591281 .1591281 .41979995 .46840454 .5604844284	.17212339 .19020397 .376924875 .37693241 .4503770 .4603776 .4614588 .54045586 .54045586 .6445235	11734616 18289247 -27980107 -37980107 -34186735 -43419735 -47872789 -52147289 -5626993 -662643604	11292728 17612071 2710493 27110493 27104930 3754936 34622033 54622033 54622033
06.		.09526428 .15884097 .2718337 .1796696 .16626321 .4582614 .4582614 .4582614 .4582614 .4582614 .5683109 .5683109	.(9148242 15262004 257753822 25753822 2575382 2424490 2444907 2541184 25442001 2675265	**************************************
.75	11777056 17052794 27745887 31846429 31846420 3184388 4585428 57385728 54857786	. 11281894 . 11281894 . 2127140 . 226911452 . 36597136 . 35101608 . 44001608 . 5567776 . 55677776	.0%612569 .1%870348 .273603632 .273603637 .24036376 .3376376 .346492018 .54746561	.05394218 -10411837 -15685542 -19581168 -23956385 -52456481 -35609686 -40709272
.50	.07512398 .11970405 .11970405 .27910633 .2538443 .29859186 .34334590 .418817157	.07968725 .07190570 .157443 .1574436 .26736820 .2785430 .278540 .2785430 .2	.02846806 .06895181 .10786841 .10772406 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .277298464 .2772984	.02734498 .06623102 .10553770 .1402467 .18434988 .22324057 .3212346 .3212346 .3212346
\$2.	.04174108 .07904264 .11657817 .1556898 .2165898 .21659996 .32783659 .32783659	.01242900 .04183706 .11148622 .1114869103 .1869519 .26581459 .26581459 .3477267 .3477267 .3477596	201121518 20407186 210672187 214219789 217900042 217900042 274443781 27444781 27444781 27444781 27444781 27444781 27444781 2744781 2744781 274478	.01144132 .03848646 .06949757 .17243573 .1717111 .20753803 .24798120 .28096553
٠1.	.02447968 .05117413 .08174680 .11607166 .18677907 .2548754 .2548796 .37463175	.0.0.4.570.4.2 .0.2.3.4.6.6.4 .0.7.8.0.3.4.6.6.4 .1.0.9.11.0.9.4 .1.0.11.0.9.4 .2.0.1.6.4.1 .2.0.0.2.4.1.6.4 .2.0.0.2.4.1.6.4 .2.0.0.2.4.1.6.4 .2.0.0.2.4.1.6.4 .2.0.0.2.4.1.6.4		.07147789 .07147789 .04491245 .07166181 .17161784 .1317092 .19624591 .26529705
\$u•	.01639752 .01639753 .016459562 .01640940 .12603401 .15994128 .195542858 .195743814 .21174321	0.0022766 0.1567406 0.1451528 0.1678528 0.15071456 115071456 115071456 115071456 115071456 115071456 115071456 115071456		.0144718 .0247518 .025469 .0524091 .11767753 .17037764 .27237776
• 025	.n1120458 .n2905585 .07818679 .107280625 .10728064 .13864654 .17979794 .277793195		.nnlc445 .n1725444 .01755434 .01755434 .01711867 .0077701 .15630727 .15630727 .15630727 .15630727 .15630727	.nn101220 .nn583958 .n254658 .n4537945 .ne8811146 .no271667 .12071667 .17971682
16.	688765 			
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*	m (. 00038668 . 017300903 . 01730070	00045538 00045538 07445806 07355346	01384204	.07064399 .04315382 .04383182	.01100348 .03700473 .04680346 .09845498	.07570750 .07571678 .10152620 .12062264	.04107240 .10074441 .14578047 .1849957	.14153161 .10107145 .10107145	.10883036 .16983122 .22789365 .27190126	.1527460 .10636965 .25136202 .36154060	.16232236 .27932488 .28594486 .33720843
	£ 16 5 35 C	• • • • •	11574712 11574722 11574722 1151611		.12597016 .15559516 .16557301 .165573017	.1/408500 .1/408500 .1/40878/4 .1/4084600	112552116 012572176 002771076 00271776 00271778	2721		. 1006114 . 36259686 . 601786388 . 601786686 . 601786686 . 601786 . 601786	. 42501619 . 42547510 . 42547510 . 43787646 . 51787646	.47998471 .47790471 .51401904 .5140465
		18 4 1 4 0 4 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0		* 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.28K41627 .32'K'00- .35/20330	. 4450449 . 47450449	. 4000000000000000000000000000000000000	.477208X1	. 52373660 . 56713535 . 16675333	.5643373 .4015758 .42701014	. hc 429 - 46 . h - (0 2 1 9 k 2 . h - k - 1 - 0 1 7 B	.56388100 .66388100 .69916713
(**C * \$ C			2.02.02.02 2.02.02.02 2.02.02.02 2.02.02.03 2.02.03	. 01937265 . 01937265 . 04157603 . 06571766 . 01201686	. 03 05 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		. 05000.0000 . 03044.6.11 . 1. 000200 . 1. 213016. . 1010.0010	**************************************		.1.020082 .1.020082 .1.020088 .1.020088 .1.020088	.25170305 .27170305 .27650677 .37536701 .37273036
	F 5 6 C = 7 6 3							2011 2011 2011 2011 2011 2011 2011 2011	10000000000000000000000000000000000000	43.000000 49.0000000 49.0000000 49.00000000 49.000000000000000000000000000000000000	67758306 67786376 6778730 67770730 67770730 6777073	
	. 68 14 2 5 7 5 6 6 6 1 8 4	######################################	10000000000000000000000000000000000000		- 1175581 - 11075581 - 04001878 - 04001878 - 04001878 - 1166775 - 11600185 - 1760181 - 27620181 - 27650187 - 27666074	10.72175	20201130 20202123 20202123 20202123 2020223 2020223 2020223 2020223 2020223 2020223 2020223 2020223 2020223 2020223 2020223 2020223 2020223			10166576 15850737 250825471 250825471 2708206076 271960177 37960177 41872776 45473101 4	112142417 11814777 23150440 23150447 24891315 24891315 2487154 2487154 2487	

PERCENTILE POINTS OF THE BETA DISTRIBUTION

PERCENTILE POINTS OF THE BETA DISTRIBUTION

06.	.14683215	.20787798 .25967789 .35067781 .35069781 .4317747 .4317747 .4568780 .566786 .57658471 .51011995 .57658471 .51011995 .57658471	.7015,8978 .7015,8978 .7071,1868 .400,2650 .4196,866 .4196,866 .4196,8677 .457,741 .457,465 .5918,665 .5918,665 .5918,665 .5918,665 .5918,665	12728761 217568996 217568996 279021467 22971467 347758 40053096 4376578 4637695 46476 4647
.975	111944487	17764410 22765189 22765189 31664061 39774755 43540648 609334 6105368 6410536 6410536 6410530 6410530	11570331 17216945 22457846 30721845 44721170 44721170 45784771 45784771 45812004 55144015 65574575 65574575	1000324 14917208 291957141 291957145 291957145 39657135 39657135 39697185 3463678 4630486 4630486 4630486 4630486 35210988
\$6.	.09814463	. 164190174 . 20156059 . 28817201 . 328817201 . 328817201 . 4050650 . 4050650 . 4050650 . 4050650 . 5167070 . 516707		.08203164 .12857104 .12857105 .206915163 .20627207 .31056417 .31056417 .34304969 .37477017 .34304969 .3440419
٠6٠	.076329!4	.17761889 .17376534 .275696206 .22660168 .37269656 .3726966 .476971134 .476971134 .476971134 .476971134 .476971708 .5737504	17:56999 17:569999 27:599164 27:599164 27:599164 27:599164 27:599169 24:599169 24:599169 24:599169 24:599169 24:599169 24:599169	.0666631 10666631 116499172 21553280 221553280 221553280 221553280 221553280 221553280 221553280 22153280 31753614 31753
£7.	• 04567867		.004515819 .08755673 .16754961 .16754966 .2773486 .2773486 .27734876 .3478966 .3478978 .41124760 .4469778 .41124760 .4469778 .41124760 .4469778	.01881425 .07509378 .014166617 .1744809 .27470629 .27592705 .35593777 .35593777 .35593777 .35593777 .35593777 .35593777
•50	.02361818	005720226 00911454 115921659 115921569 115921569 115921640 115921640 11592165		0.1969939 0.4749099 1.3218308 1.3218308 1.3218308 1.31874876 2.31533070 2.31534070 3.31831240 3.31831240
.25	•00887103	0.03317318 0.05986016 0.05986016 0.11757773 11757773 1175773 2747657 2747657 2747657 2747657 2747657 2747657		0.0081.8578 0.0274.8228 0.071.741.0 0.172.014,0 0.172.
01.	•00362653	0.018490346 0.01861547 0.051641888 0.10245834 11745834 11745834 11745114 0.25411603 0.254100408 0.341002408 0.341002408 0.341002408	0.07404897 0.074048977 0.0740434 0.0740434 0.1740434 0.1740477 0.1740714 0.1740714 0.1740714 0.1740714 0.1740714 0.1740714 0.1740714	.00300677 .01579851 .054106554 .07115705 .07260408 .11401078 .11401078 .11658036 .71631845 .71631845 .71631845 .71631843
٠٥٠	-117471no	01243454 002873549 002873549 002873549 0126429 110176431 11017642 11764 117642	11197579 11197579 1687656 16876566 1149766 1149766 1167196	-1107.86.6 -12737.86.6 -1380.736.6 -1380.736.6 -1373.66.6 -1117.66.5 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96.66.6 -15.96
.65.	• 0008 1265	00846396 007186373 00888603 008886083 007994184 107981384 1707880368 07552018 076463657 076463657	00084357 00811813 032111813 03211813 0321185 0321185 0321185 0321185 032185 032185 032185 032185 032185 032185 032185 032185 032185 032185 032185 032185 032185 032185	000073317 000690676 001803764 001803763 001806076 001806076 001806076 001806076 001806076 001806076 0018076 0018076 0018076 0018076
10.	• 00034650		00000000000000000000000000000000000000	.00028715 .012745 .012745 .02456045 .0346073 .05456073 .05456073 .05456073 .10745549 .10745764 .16918664
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-11292942	\$0.	•10	•25	• 50	.75	06.	\$6.	\$16.	66.
	.78584887 .31165317 .33789493	. 1292932 . . 33950675 . . 36643021 .	6023589 8783369 1561674 4358213	.41510677 .44340442 .47170215 .50000000	.47142768 .49994181 .52827099 .55641787	.522466~' .55075713 .57870180 .60630548	.55282449 .58079617 .50832981 .53543205	. < 7 × 8 8 2 2 8 . 60 × 60 × 60 × 60 × 60 × 60 × 60 × 60	.60871476 .63571187 .65215575
**************************************	10099570 100995	0.0767056 0.0747061 0.0678707 0.0676813 0.06701107 0.107010107 0.1070107 0.1	7116674 2474657 47746674 47747656 716779 716779 716779 7177797 7177797 7177797 7177797 7177797 7177797 7177797 7177797 7177797 7177797 7177797 7177797 7177797 7177797 71797 71797		0054009K7 105547598 105547598 117040309 117040309 117040309 117040309 117040309 11704030 11704030 11704030 11704030 11704030 11704030 11704030 11704030 11704030 11704030 11704030 11704030	109379312 109379313 109379313 11056314	113188346 11491818346 11491818346 2014254646 2014254646 201427040 20142646 20142646 20142646 20142646 20142646 20142646 20142646 2014264 20142	11156845 11691684 21691684 27680429 25680429 25680429 25680429 25680429 25680429 25680429 25680429 2569159 26108626 25108626 25109629 25109629 25109629	10874906 15475307 229906881 22990688 229577848 229577848 24134674 24134674 24134674 2413474 2413471 2413471 24134711
. 36416440 .40650514 .45588620 .50485532 .55071341	001113020 00105410 001061610 00106161 00106110 0010610 0010610 00106110 00106110 00106110 00106110 00106110 00106110 001	00118851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851 0018851	213724 2137186 2137186 25666666 2667366 2677366 2677366 2677366 267736 276736 276736 276736 276737 276737 276737 276737 2767667 27676777 276767 276767 276767 276767 276767 276767 276767 276767 2767677 276767 276767 276767 276767 276767 276767 276767 276767 2767	0.01528522 0.03701586 0.03702760 0.1030	0.01313686 0.01313686 0.013136371136 0.013671136 0.013	74258140 74270777 14270777 14084431 105141766 105141766 105141766 105141766 105141766 10514176 1051476 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 10514176 1051476 1051476 1051476 1051476 1051476 1051476 1051476 1051476 1051476 1051476 10	10101478 10111178 10111178 10111778 101107478 101107478 1011074178 1011074178 1011074178 1011074178 1011074178 1011074178 1011074178 1011074178 1011074178 1011074178 1011074178	07970510 11770411 1874616 21821176 21221176 2265818 22658180 22658180 22658180 22658180 22658180 2269180 2269180 218980 218868180 2188688180 218868880 21886888180 2188688180 2188688180 21886888180 21886888180	0.00706849 1.1060895 2.106718181 2.10684172 2.20671184 2.207718184 2.207718184 2.207718184 2.2084989 2.208498 2.20849

TABLE 1 Contd.

66.	.64690033	- 105 / 2016 - 175 / 2017 - 187 / 2017 - 187 / 2017 - 2017 / 2017	116032090 116620196 116620196 201788999 201789899 201789899 30188999 30188661 30188661 30188661 30188661 30188661 30188661 301886899
. 975	.62127998 .64225961	07112174 10546954 1648106 10734270 2719741 27117741 27117741 113571 11	.06487076 .17726427 .17726427 .1756427 .1954962 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027 .2648027
.95	.59881620 .62012774		63401105 68337134 .11408546 .15876746 .18168980 .226818919 .226818919 .226818919 .36818919 .3697993 .3697993 .3697993 .3697993 .3697993
06.	.57251850 .59413977		
51.	.52791148 .54987007	.02744505 .07504851 .0764154 .1267619 .16787196 .16787196 .27121091 .27121671 .3768677 .3768677 .3768677 .3768677 .3768677 .376867 .37	
•50	.47794312 .50000000	-1376774 -07394035 -07394035 -07294935 -07294935 -07394046 -07394046 -07394046 -07394046 -07086 -07086 -07086 -07086 -07086 -07086 -07086 -07086 -07086 -07086 -07086 -07086 -07086 -0	
•52•	.42826871 .45013000	0.0574712 0.0464170 0.05045170 0.050481742 1.050481742 1.050481742 1.05048174 1.05048174 2.120481817 2.120481817 2.120481817 2.2404814 2.2404814 2.2404814 2.2404814 2.2404814 2.2404814 2.2404814 2.2404814 2.2404814 2.2401811517 2.44278680	0.00 10 10 10 10 10 10 10
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٠٤٠	.8276 .9403 1.0672 1.2140 1.3929 1.6319	. 1216 . 1216 . 1945 . 2686 . 3686	. 5863 . 6746 . 7682 . 8693 . 1066 1 . 1066 1 . 6507	2.05 62 .0 1149 .1149 .1838 .21437 .31437 .31437 .31808	.1742
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٠.	.5748 .5590 .7740 .8942 1.774 1.278		4816 4524 6427 7006 81127 9110 100120	0.000 0.000	.0355
٠,	.5115 .6002 .6992 .8124 .9466 .1111			00.36 00.36 00.252 10.050 10.0	.0239 .0558
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٠٥.	.6546 .5109 .5727 .6306 .711 .7049 .7083 .4083	0000 0000 0000 0000 0000 0000 0000 0000 0000	• 0005 • 0076 • 0226
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. 975	.6171	1008.	. 4004	,395°	1,00454	44.1.1	1.0162	4000	X + 000 0			(C + 0 ·	7.50.0	5,24,2	* X . /	344, **	. 453	.727.	. 2000	2126.	41,40	2084.	6448	.5954	. 4434	-7170		42.6	8923	.9567	1.0207	1.66.1	1.1625	1.2398	1.22.2	300001	1.5053	: 44122	* 7338	1.8761	×650.	2.2790	5.6209
*6	.5714 .5271	. 7498	4769	.0405	1870.1	1.000.1	75 6	1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9" () * \ • \		* * * *	2016	2.06.1	2.35.3	£ 1, 3° 4	4	5	500	.2640	1702	44.05	To	. 4 5.	, A.	01 CY.	. + 5. 4	,	***	\$178.	. 9036	• 06.79	0540.	1.1051	1.1793	1.2584	1.3435	1.4265	105301	1.5562	1.7971	1.9572	2.1721	2.6481
ő	5.07 5773 0268	46076	. P. S. C.	.8784	1776.	1.0133	χ. α.	3 6 3 6 6 3	, ()		7.5.6	, UC 3	1.837	2,0342	2.2727	2.4×5<	000	1 44 1	.224	,782,	1022	3402.	C 2774.	0 F. V.	a555.	٠٧ ٢٥٠	• K K R O	4 7 5 T •	1484.	. 8430	63063	21.60	1.0203	1.1 11	1.1475	1.7437	1.3477	1.4572	1.253	1.4981	1.3534	7.0535	20060
¥.	40.4. 0404.	75.34	7387	.7750	. 4 . 1 7	, 2 + C	¥ .	00/100	1000			40. 3.1	1.6.		2.4.6	í.	3. 40	:	•	-1-6.	٠, ٨		- x - x •			, Q < V .	, A.A.	1757	7007	.7478	ττ (α.	. RF8F	. 033	1.000	1.0720	1.1502	1.2340	- 42KC	3-4295	1.5477	1.6892	(y / a . I	7.1.52
6	. 4592 . 6854	\$015	\$0 GE 7 *	A 745	6824.	-10th	(*) (G •			* 3 7 * *	1 2 2 2 2	70.70	1.44577	27447	10000	1,226;	1247	7 . 3	4	£74.	1010.	* 2 5 5 5	1000	4.44.		44416	CC07.	. 4414	7.05.	0.44.0	3006.	.7603	はついる。	4248.	. 24 ! 8	1.0228	1.1016	1.1265	1.2913	1.3890	1.5147	1.6778	3.226.6
\$6.	22564	47.48	, v , v	05.50	48.54.		4.77	36.56	* C		4 C . 2 C	7016	. 43.4	. 4/5.	· * *	1.9525	: 417.	14.00	. 172	7 4 4 4	.10.7	1551.	5 * * 4 *	. 54.	, a . r .	. 2472	686.	6757.	1603.	. 529	9544.	3837.	.7150	.7743		1766	2416.	1.0546	1 - 1 4 1 7	1.2400	1.3562	1.4077	1.6792
• 10	.2692	3446	. 4466	540%	6424	4004	. KSS 7	7163		1000	7,001	1.0027	1.1287	1.2746	1.4447	1.74.4	1,700	U364.	4625	ς:ας.	.112~	1775.	.1826	602C+	.2488	.7089	5.75.	. 1816	1827	24744	.5226	62430	•h25h	.4810	47298	.802ª	.8696	.042€	1.0222	1.1136	1.2179	1.2436	1.5045
•0•	.1978	4159	4021	9677.	1805.	1075	4009	. 4597	167.	1 d	42.44	3.4202	: 1195	1026-1	1.3918	1.4210	£200°	. 141	7440	1270	8150.	.1227	•1656	2051.	.27.64	.2640	2002.	0272.	. 784.	7027	476.4	3765°	. 5743	.4280	.6845	,7442	.9086	.8785	£556.	1.0414	1.1403	1.25.85	1.6101
\$20°	.1732	27844	34.74	.4118	, 45 R 2	550.52	44.44	. 613.	47.4	0.00	24.5	3040.	3.2546	1.1638	1,2115	1.4.737	1100	\$ 1 % C *	28600	40504	.0761		11244	1565	£002*	3356	.2120	3116	91519	1762	1447.	.4842	1643.	. 5828	6446	. 5956	.7576	.8247	A 0.08.	0080.	1,75,	1,1874	1.1201
ξ,	17.5	.2502	7467.	.3701	.4,47	. 40.03	300	α - · · · ·			2126	7161	2815	1. 1080	1.320	1.5159	7000	****	1000	7320	\$670	. 1851	.1122	7 (7) .	1724	7306	0086.	. 2762	.3142	1752.	930K.	4027.	3787.	5985.	. 486.	.6412	£101.	741.4	4256.	.9129	1.0022	3.1780	1.2411
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PERCENTILE POINTS OF THE CHI II D.F. I DENED STATISTICS

PERCENTILE POINTS OF THE CHI C: N.F. 1 ORNER STATISTICS

.6478	6178		1.7568	1.9747	2.2500	7.5687	2.8980	· • 1156	3.1199	3,5697
•0022	0022		\$400.	721v.	9620.	.0485	8560.	.1233	.1503	.1851
•0155	0155		25200	.0416	.0718	.1133	91910	.1934	•5570	.2636
1980	1980		40684		.1745	2166	,2189	42554	£ 2863	3314
.0885	9885		1084	1478	2000	2635	3278	1697	04070	4544
.1187	1187		.1414	. 1861	.2447	.3123	.3806	97270	.4646	.5139
•1400	1400		-1760	*566*	. 2480	1176.	06.50	.4789	.5204	.5706
1832	1832		•2119	.2657	7555	00[7	4852	.5330	•5760	.6278
25.19	25.40		. 2877	7672	4764	4000	55377	8187	7129	44850
5162.	5162		. 1275	\$420	.4728	1095.	6443	.6971	.7443	4008
\$056.	3305		. 1686	2645	.4212	.4113	•6969	.7534	-8019	8558
•3705	37,05		21115	* 4835	.5708	. 5648	-7547	.8108	.8608	.9263
02170	6110		.4553	0125.	.6218	-7102	.8120	.8698	. 0217	.082.
.4565	4565		0105		-4745	.7753	8712	. 9207	.0816	1.0465
1/04	1/04		1 2 2 2 2	1154.	1707	****	4246	0,030	1,000	
9665	2096		55.05	7399	8456	94.46	1.0634	1.1289	1.1870	1.2550
			.7053	. 7085	3084	30000	1.1242	1.2021	1.2622	1.227
		٠	7634	*8408	.975n	1.00¢	1.2095	1.2861	1.9421	1.4169
		•	8253	9960.	1990.1	1.1720	1.2908	1.3643	1.4296	1.5071
_	_	•	80 1	2300.	1.17.7	1.25.48	2644.	1.456	1.5247	1.5061
		٠.	0442	1,0740	3-2072	1.3652	1.4769	* 45.54	1.5304	1.7147
			334	1,7596		. 444.	2322	1.8087	1.000	1,620.
			717	1.3728	1.5224	1.7041	1.8696	1.9728	2.0553	201765
_	_	-	3618	1.5111	1.5894	1.9818	2.0683	2.1863	2.292-	2.4214
			.5236	1.5945	1.9018	2.1200	2.3557	2.50nz	2.6330	2.7944
		-:	7724	1.9892	2.2613	2.5803	2.5090	3,1268	3.3287	3.5778
. 1500.	Ī	•	4900	•0150	9820.	9950.	.0927	1154	.1455	.1793
.0150	0160	Ī	72Cu	¿0%0°	7690.	.1096	.1565	.1873	.2175	• 2554
6760.	6760		448	9220.	-1107	.1501	.2119	£ 2 7 3	.2803	1175.
.0588	0588		9746	1070	.1423	2076	.2654	9505	93380	13821
•0854	0854		1067	.1478	2761.	5742	11/1	37.19	1366.	*4404
.1141	1141		1365	1797	•2364	.3020	.3683	.4111	6677	.4970
.1446	1440		.1698	•2176	.2791	1676.	•4189	• 4635	.5730	. 5527
•1766	1766		-2044	.2565	.3223	.3963	6693	.5157	.5575	•6019
•2100	2100		.2403	*5965	.3462	86778	.5159	.5680	.6111	.6630
.2447	2447		.7773	.3369	.4107	6107*	.5708	•6205	•6650	.7183
-2807	2807		.4155	.3787	.4561	.5406	.6223	•6736	.7394	.7742
.3180	3189		6758.	.4215	•5054	-5902	.6747	.7275	.7746	.8109
1986.	1956		9366	• 4655	66750	6049	.7281	. 7825	8309	.8886
. 3968	3968		4377	.5108	.5986	•6928	.7827	.8387	-8585	.9478
*867			, ,	1000		,,,,		,,,,,	0 1 1 0	1.0004
	+36+		. 4813	07710	00000	. 040.	96990	• 6705	0/11	0

PERCENTILE POINTS OF THE CHI () D.F.) ORNER STATISTICS

66•	1.2056 1.2056 1.2056 1.5056 1.5056 1.5056 1.0059 2.10074 2.404 2.404 3.5666
.975	1.0322 1.1392 1.2392 1.2393 1.3630 1.6643 1.6643 1.7676 2.9078 2.3059 3.3482
• 95	1.0188 1.05833 1.05833 1.05833 1.05833 1.0586 1.058
06.	10.0203 10.020
. 75	
• 50	.7545 .8106 .9179 .9179 .9171 .9071 .10576 .10769 .10769 .10769 .10769 .10769 .10769
•25	.6564 .7089 .7538 .8517 .8531 .9486 1.0957 1.1916 1.2781 1.5279 1.7109
•10	.5736 .5278 .5278 .7385 .7386 .9847 .9849 .10639 .10639 .107528 .107528 .107528
•05	.5267 .5749 .5749 .5746 .7405 .7405 .9211 1.0812 1.12950 1.6594
• 325	.5333 .5333 .5333 .5333 .5340 .7407 .9400 .10711 .10711 .10746 .10746
.01	.4644 .4877 .5331 .5331 .6319 .6861 .742 .9742 .9745 .1.1457
-	755 755 755 755 755 755 755 755 755 755
z	c c

TAME 3 Contd.

(Page 33)

PERCENTILE POINTS OF THE USINGEL ORDER STATISTICS

C = 2.0

							- /•"					
N	•	•01	•025	•05	.10	25	•50	. 75	•90	. 95	• 975	•99
2	2	.07089	+11251	.16015	.22952	.37926	.5887	.83255	1.07298	1.22387	1.35810	1451743
	?	. 32459	.41486	.50369	.61655	83255	1.10813	1.41778	1.72320	1.01733	2.19182	2.30126
3	1	.05788	.09187	.13076	.18740	14041	. нокв	,6797A	, HTC OU	60034	1.10822	1.73897
	ż	.24639	31477	38135						• 40050		
	à				.46*81	,72853	.83255	1.05820	1.27697	1.41417	1.53665	1.68281
	•	.49258	, tanji	.47787	. 18088	•00/07	1,25425	1 . 54662	1 03484	7.441924	2,10611	>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4	1	.05013	.07056	+11324	.16230	.~/ 414	.41628	.58871	.75871	·86541	•96932	1.07298
	?	.20714	.24453	, 12048	.3921A	. 5.7766	* (380 B	.88575	1.06677	1.17978	1.28034	1.30098
	3	• 78966	.46457	. * 3467	.65156	• 78044	.97402	1.12037	1.39571	1.52537	1.44145	1.78748
	4	•61455	•71196	.80019	*30302	1.10813	1.40580	1.63338	1.91045	7.09875	2.25071	2.44698
5	1	· Marks	.07116	.10128	.14516	. 2212H /	. 3/223	452655	.67861	. 77405	.85894	.95970
	2	18729	.23278	.28199	245.13	.66400	. 61358	.77812	.03638	1.03500	1.12261	1.22668
	3	. 33414	30820	.45R04	5 121 2	66 139	82255	1.01154	1.18315	1.22022	1.38558	
	**	50112	57749	64765	12253	*88840						1.49924
	r,	71252					1.07655	1.28106	1.47891	1.60351	1.71531	1.84957
	•	• /1/3/	enved.	.89270	,79847	1.19496	1.42085	1.4982	1.96731	2.14120	2.20061	2.492**
6	1	.04093	•06496	₹09246	.13211	tents.	• 23083	*48748	.61949	•70660	.78410	.87609
	7	. 16471	.21032	. 254 74	.31172	.419/1	.55620	.70246	, 44449	.03370	1.01247	1.10594
	1	. 29755	. 15454	.40773	.47359	. 59353	. 73070	.89757	1.04834	1.14210	1.22539	1.32441
	4	.43503	.50703	.567.62	.62560	. 76941	.7791A	1.10195	1.26685	3.36977	1.461.3	1.57108
	4	.59041	•66660	.73595	.R1020	.0710	1.15230	1.36105	1.54257	1.66343	1.77208	1.90282
	6	.78988	.88212	.96636	1.01074	1.25635	1.48445	74972	2.01268	2.18317	2.23883	2.52839
_			-		-				,		10.70.7	7 • 77 13 7 •
7	1	• ^3789	•06014	•08560	.12268	•25/77	.31468	.44502	•57353	*45419	. 72594	.81110
	2	.15141	*10336	.23421	. 29656	. 28527	* 60033	of 14 6 16 16	.77622	. A 5. 157	•92977	1.01540
	1	•27099	. 32286	.37126	.41115	. F401A	.67286	.81592	•95225	1.03687	1.11195	1.20106
	4	. 10175	.45100	66671	67146	.19001	. 84755	69520	1.13047	1.22075	1.30098	1.39643
	5	.51924	SAC 72	.64600	71912	84022	1.00513	1.17221	1.12196	1.43172	1.52077	1.62722
	6	.46411	73056	87782	89041	1.037/5	1,21502	1.40717	1.59391	1.71184	1.81802	1.24620
	7	85423	.96474	1.02717	1.12776	1. 11021	1.53/73	1.70224	2.05032	2.21805	2.37149	2.55867
A	ı	.03544	.05426	.08007	.11476	.18953	20126		53/10		49054	27.521
٠,	;	14090	.17972	21794			. 29435	.41628	.53649	•61194	.67905	•75871
					,21164	25854	.47388	.(0045	.72200	.79760	.86465	.94417
	3	.24054	.29847	.34320	19853	•49920	.62163	.75350	.87961	• 95683	1.02580	1.10761
	4	. 35995	.41328	44.204	.52344	./3175	.76164	•90043	1.03214	1.1178	1.18619	1.27219
	5	.47000	.52996	.58431	•45013	• 76675	.90589	1.05425	1.19521	1.28280	1.36067	1.45340
	6	.54911	.655.24	. 71504	. 76 709	.21462	1.06648	1.22343	1.38503	1.48230	1.56919	1.67317
	7	.72645	*80633	.86809	.94910	1.09317	1.26/41	1.45432	1.63679	1.75234	1.85650	1.98224
	8	\$4690	•99791	1.07473	1.17723	1.35580	1.57764	1.82846	7.08240	2.24785	2.29943	2.58461
9	١	.03342	.05304	.07549	.10820	. 17879	.27752	. 39747	.50581	,57694	•64022	•7153 _{<}
	ż	.13232	.16896	20467	25039	33668	44496	56376	.47782	74873	,A1363	**************************************
	•	. (241)	11003	.32072	.37240	.46642	58069	70369	.82067	89315		
	4	33350	38384	42003							. 95 735	1.03345
					• 48403	.59341	• 70466	. A3495	•95647	1.03163	1.02333	1.17737
	5	.43300	.48813	•53806	•59838	. 70535	.83255	•96777	1.09579	1.17509	1.24544	1.32902
	6	* 4 3 4 3 0	,59638	******	.715/ ^	.83016	• 96630	1.11107	1.24850	1.33392	1,40990	1,50043
	7	•64894	.71461	.77362	. 84450	.91965	1.11845	1.27756	1.42972	1.52492	1.61003	1.71199
	8	.78022	*84369	•91977	. 99934	1.14060	1.31031	1.49446	1.67352	1.78707	1.88955	2.01340
	9	• 95656	1.04396	1.12332	1.21999	1.39521	1.61307	1.85986	2.11032	2.27382	2.42381	2.60728
10	1	.03170	•05032	.07162	.10265	.16961	. 26328	.37233	.47985	(, 300		
4 ***	;	12514	15979	19356						.54733	•60736	•67861
					.23679	. 11639	.42077	.63300	.64090	•70792	.76734	.83779
	3	•22062	•26281	•30217	*25086	. 6 29 20	.54697	.65272	. 77273	• 8408£	· well to	•97267
	4	•31281	476000	.4031R	.45576	.64978	•66231	• 78226	•80575	• 96591	1.02803	1.10165
	5	.40378	45512	*edled	, 4577)	. 66/14	.77419	.90044	1.01075	1.09199	1.15671	1.23358
	6	.49632	.55166	. F (1) 45	. KC 128	• 76675	.89149	1.02366	1.14861	1.22601	1.29468	1.37629
	7	•4027 <i>1</i>	·65.346	•טחימל	.771]6	• 42475	1.01762	1.16023	1,20363	1.277	1150	1.54041
	H	•70103	.75604	•8242B	. 87479	1.0170	1.16300	1.31808	1.44 822	1000,07	1.44528	1.74553
	9	.82733	•47490	. 71 488	1.04413	1.18189	1. 1486 2	1.67946	1.70550	1.81743	1.91846	2.04070
	ı^	.99842	1.08444	1.16252	1, 25757	1.42985	1.64/25	1.88766	2.13530	2.27681		2.62740
					-		•	- •	. •	, •	2.44542	/ n / 1411

1 · · · · ·

SUSCENITIVE BOTHLY OF THE ACTUAL OBORD STATISTICS.

C = 1.6

							•					
٠,	•	.^1	.025	.46	.10	.25	.50	. 75	.20	•95	.975	• 22
4	1	.12135	.17436	11100	.30808		45.453	.86363	1 01 70 1	1.17541	1.27746	1,39600
	2	40651	.4946B	.23100 .57718	.57916	.46042 .86363	.65461 1.03561	1.32217	1.05797	1.68328	1.80476	04793
	,	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• -,	•	1	1.000	1			, •
1	1	.10233	.1630	,19642	27/145	. 914.	4 5 15 4	74444	, 4 995 4	,09944	1.08520	1.18700
	1	* 32604	• ቁ ካለ ሌቢ	.1,631	. 64264	. 18970	.36363	1.04520	1.71603	1.31948	1.41013	1.51645
	3	.56752	.65299	.73268	• B 1H04	•95765	1.20025	1.41746	3.62507	1 + 24 940	1.86955	2.00615
4	,	,0912}	.13100	17507	. 23348	. 34893	.49603	.65451	.80179	,A9079	• 26813	1.05797
	á	.28380 .47 44	•345]3 •54]56	•402°9 •60595	.41292 .68358	.509/3 .42574	.75011 .98077	•90751	1.05307	1.14141	1.21860	1.30887 1.55646
	4	6 1	76292	8 16	9265	1.02.67	3,376 70	1.48071	1.6784	1.80264	1.01362	2.04500
		• .,	•	•	• ,, ., .		. •	4 *******	. •		1.	, •
5	ł	.08342	.12072	.16012	.21354	.31914	.45367	.19862	.73333	.01472	. RASAL	.76763
	•	.25621	. 21767	• X6374	.47686	.54110	. 1, 71,1,3	.81616	.74877	1.02790	1.09694	1.17757
	3	.41404	.47972	. 63546	. 4 0373	.72341	.86363	1.00027	1.14401	1.2611	1.22803	1.38260
	4	. 5.75.4B	.61457	+ 25644	. 7E 42	• 203	्रे ∙गैक्स हैं है	1.21.715	1 . 34 75A	1.45301	1,53083	1.63553
	4	• 76249	.84194	*31324	, 19A74	1.15000	1.33117	1.57750	1.71830	1.93877	1.94681	2.07612
4	ì	.07755	.11773	.14885	.19852	.29569	.42176	.55552	.68175	.75743	.82318	.89958
-	ż	33625	28728	33491	39356	42882	62364	175397	·B7494	94660	1.00226	1.08389
	•	.37918	.43624	.48786	\$4234	. F5880	. 7856B	.91718	1.03849	1.11215	1.17657	1.25204
	4	.51468	.57621	.63121	.69677	• የ ፻ ሳ ዓ ዓ	.94327	1.08076	1.20831	1.28623	1.35471	1.43535
	ς,	• ለዳለሳሳ	.7 7.23	. 18749	. 85337	.97677	1.32027	1.27215	1.41448	1.50246	1.58047	1.67309
	6	.82894	.00453	*31340	1.04509	1,20030	1.37463	3.56450	1.74993	1.86754	1.97333	2.10027
7		.07292	.10552	. 13996	.18665	.27895	.39154	.52324	.64098	471213	.77396	.84578
,	3	22087	27,848	31310	36 791	46629	58290	70451	.01656	99434	94341	1.01230
	3	35185	40427	45263	51016	61008	72935	RAPRA	.96162	1.02229	1.08860	1.15785
	4	47250	4288K	67920	63913	74320	A6.3+3	.08814	1.10308	1.17301	1.23429	1.30622
	5	.52326	AFTAT	70507	76819	,87/-7	1.00410	1.14.54	1.25774	1.33256	1.30847	1.47624
	6	.72076	. 78555	.84255	91132	1.03001	1. 15866	1.31447	1.45201	1.53734	1.61316	1.70339
	7	.88157	*drara	1.02163	1.10000	1.24122	1.41013	1.59437	1.77606	1.89138	1.99534	2.12037
я	1	.06913	.10003	.13267	.17694	. 26444	. 37592	.49602	.60765	.67510	.73371	.80179
	ŝ	70851	25366	29558	34,737	44018	(602)	.56494	. 17060	83450	89017	91508
	3	. 33044	.38610	.425 AS	47904	. 5 7 46.3	. A R 16.4	,79738	.20128	.96531	1.02057	1.08525
	4	*44^69	.402.	* 64003	* 6 7 6 7 0	. 64363	. 4742	.91952	1.02563	1.03303	1.14637	1.71230
	¢	.54661	.65.77	****	• 7AB5.2	· ክላብና ዘ	*02403	1.04317	1.15333	1.22047	1.27939	1.34868
	6	. 65499	.7734	. 75469	.82569	.03117	1.05300	1.17968	1.20768	1.37009	1.43397	1.50950
	7	.77449	.93777	.89300	• 25207	1.07386	1.20798	1.34936	1.43318	1.56637	1.54942	1.72872
	ß	. 92653	.00833	1.01.250	1.12363	1,27573	1.44015	1.42057	1.79825	1.91168	2.01413	2.13755
9	1	.04594	. 99543	.12657	.1/880	.24727	. 46862	.47320	.57968	. 644115	•2977	.76499
	2	.19829	.24112	•28>68	.33073	.41857	•2318	.63223	.73264	. 70335	.84622	.90787
	3	* 21303	AUUVE.	140262	.4 "74	. 6 4 3 2 7	****	*26403	.45376	•91356	.96573	1.02667
	l,	.41541	•45484	*****	.56347	* 4 x 2/4)	• 147	• 94562	•98503	1.02527	1.07/92	1.13954
	5	.51191	.56341	.60gn7	•66310	. 75635	. 86 36 3	.97413	1.07592	1.13778	1.19195	1.25552
	6	.50756	.66133	.70884	. 16496	.86165	,01295	1.08721	1 - 19430	1.25922	1.11678	1.24348
	7	.70756	.76429	.41477	. 97754	97565	1.09369	1.21648	1.93107	1.40151	1.46375	1.53745
	8	.81992	.88113	.93529	. 99948	1.11008	1.24126	1.27907	1.50075	1.02022	1.56374	1.75043
	7	• 94509	1.036.03	1.09750	1.17943	1. 4	4 · /4 · · · · · · · · · · · ·	1.64780	1.41752	1.40	Z•03748	2.15254
10	1	.06322	•09140	.12134	.16183	. 24184	. 14292	.45367	•55576	463745	+47105	.72222
	2	. 18963	.23059	. 26881	.31586	•40058	.60031	.40456	•70054	. 75855	•80908	.86798
	3	20868	.34334	. 12.16.2	.4321,	-51794	•41713	.71955	•91362	• A 7052	•92014	• 97808
	4	.39466	.44161	•4835A	.52722	•419/c	.710.0	92164	•91569	.97264	1.02237	1.08053
	۶, د	.48408 .57096	.53272 .62335	.575A}	. # 7480 . # 8 # 1	. 7] 47n . 2024	C37.10	\$1959 1.01888	1.01497	1.17705	1.12351	1.18286
	7	6 F 9 D 3	71160	75.777	81720	11200	1.01000	1.12647	1.22875	1.79188	1.22950	1.472HQ
	Ŕ	75264	80709	H¢ 6.76	01433	1.0136	1.12844	1.24703	1.35067	1.42847	1.48934	1.50150
	9	85931	91300	97130	1.03436	1.14304	1.27025	1.40484	1.53285	1.41274	1.644468	76939
	10	99874	1.05.003	1,12-11	3,25359	1,9411	1.441.0	.66 233	1.83450	04491	2.04195	2.16581
										•		

PERCENTILE POINTS OF THE WEIGHT OFFR STATISTICS

c - 5.0

							7.0					
ч	1	•01	•025	•05	•10	•25	•50	• 75	•90	•95	•975	•99
•	ı	,34(22	.41733	•48062	.55505	.41854	.80902	.92932	1.02858	1.08416	1.13025	1.18153
	2	.63758	.70333	. 75973	.82411	•62932	1.04192	1.14986	1.24321	1.29741	1.34341	1.39568
3	1	, 21990	* 30%ช่ว	.44110	.51181	.47567	. 70.60	.85693	.94846	.99972	1.04221	1.08949
	,	\$67102	.62975	.68004	. 12732	83048	.97927	1.02288	1.10274	1.14869	1.18749	1.23144
	1	.75334	.80870	.85597	• 20997	•99893	1.00058	1.19057	1.27478	1.32457	1.36732	1.41630
4	1	.30201	.34331	.41841	.49320	.59070	.70429	.80902	.89543	.94382	.98394	1.02858
	2	.52772	.58748	.63434	.68769	.77436	.86609	•95263	1.77017	1.06837	1.10390	1.14406
	3	. 45592	•73590	.77943	.82479	• 00560	. 99034	1.07183	1.14266	1.18400	1.21924	1.25955
	4	87411	.87294	.91470	.96256	1.04192	1.12058	1.21684	1.20555	1.34263	1. 483 44	1.43038
5)	. 29893	.34745	.40015	.46211	.56492	. 47355	.77371	.85635	• 90262	.94099	*98368
	2	.50618	. 65310	•60269	. 45235	. 73560	.92258	.90457	107405	1.01385	1.04735	1.08516
	3	.64501	.49190	. 77176	.77700	*85065	.^;^~	1.00440	1.06959	1.10730	1.13934	1.17584
	4	.75A54	.R^2R2	.84050	, 8836}	.05377	1.02005	1.10415	1.16944	1.20789	1.24090	1.27888
	5	.87321	.01757	.9467.1	. 20027	1.07239	1.15276	1.23594	1.31034	1.35601	1.39528	1.44088
6	ì	.27849	.33501	.38582	.44554	. 54469	. 64943	.74600	•A2568	.H 7030	.90730	•94846
	2	•48675	* 4 4 4 4 4	.57871	.42734	. 70627	· 7807]	.86826	.93484	•97293	1.00497	1.04110
	3	.61575	.64040	.120.2	. 74158	.81167	, 88£3B	•95770	1.01906	1.05458	1.08470	1.11895
	4	.7174]	******	19449	.834/3	**^^^4	.97122	1.03960	1.09973	1.13412	1,16392	1.19806
	5,	, 80996	.85025	.88458	.92378	.09842	1.05871	1.12720	1.18932	1.72575	1.25717	1.29348
	6	.90997	. ~ 6 1 0 7	.98641	1.00718	1.09458	1.17245	1.25080	1.32285	1.36458	1.40475	1.44923
7	1	. 27003	.32484	. 37410	.42203	.42R1h	.42912	.7233	.80061	.84388	.87975	.91966
	2	. 46796	.51824	64	.60656	• 68285	. 76348	.83935	.90364	.94039	.97124	1.00613
	3	.59317	.63632	•67278	.71425	. 78145	.85343	.92185	.98062	1.01459	1.04336	1.07603
	4	. 58733	.777/3	.76104	. 79945	. 86209	. 32032	.93405	1.05028	1.08305	1.11098	1.14290
	5	.76939	.A0738	.83969	.87646	9367/	1.00205	1.06562	1.12149	1.15437	1.18257	1.21501
	6	. 84898	. 88631	.91818	. 9545	1.01689	1.08102	1.14647	1.20500	1.23990	1.27010	1.30514
	7	.93892	.97752	1.0107	1.04727	1.11413	1.18751	1.26288	1.33269	1.37527	1.41257	1.45615
8	1	. 26292	.314.20	.36424	.42065	.51424	.41312	.70429	.77752	·82164	.85657	.89543
	2	.45663	. 5 4 3 5 4	.54347	** 8944	.16346	. 74176	.41544	.87784	.91351	.94349	•9772R
	3	. 47434	.K1454	.65196	. 49212	, 75,737	.82682	.89296	.94972	•98250	1.01024	1.04173
	4	• 66383	•70224	.73487	.77188	.83218	18368	•95891	1.01273	1.04404	1.07069	1.10108
	5	.72923	.77671	• 8ሳልልስ	.84173	.89921	.96123	1.02136	1.07393	1.10475	1.13110	1.16133
	6	.80924	84447	.87447	• በኅፀፉ ን	.06403	1.02416	1.08613	1.13916	1.17051	1.19749	1.22862
	7	• 88000	.91502	+944/3	.01932	1.03627	1.09908	1.16162	1.21786	1.75155	1.28079	1.31481
	8	•95256	91000	1.03078	1.05 144	1.12948	1.20006	1.27302	1.34099	1.38263	1.41920	1.46204
ij	1	. 25677	.3089)	. 25576	.41085	.50227	•59885	.68790	.76137	.80251	.83662	.8745R
	2	.44530	.49104	. 43017	.57671	. 64197	. 72771	.79513	.85594	•89070	•91990	•95282
	3	.55949	•60607	.63453	. 67361	.73107	.80460	.86887	.92399	•95580	•98272	1.01325
	4	.64453	.69191	.71343	.74937	.80776	. 87033	.93039	.98236	1.01256	1:03823	1.06749
	5	.71548	.75061	.78043	.81431	.86969	•92932	• 98698	1.03727	1.06667	1.09177	1.12050
	6	.77946	.41777	.84193	.R7462	•92425	• 98638	1.04303	1.09284	1.12215	1.14729	1.17621
	7	.84116	.87473	.90243	.93463	.98775	1.04580	1.10294	1.15372	1.18386	1.20986	1.23994
	9	•90550	47848	.96710	.99974	1.05.03	1.11417	1 . 17434	1.22872	1.26141	1.28986	1.32304
	7	.08739	1.01726	1.047/2	1.08279	1,14205	1.21077	1.28172	1.34815	1.38900	1.42495	1.46715
10		. * ~ 144	.30247	. 34839	.40229	.491/9	.58636	.67395	.74549	•78578	.A191A	. 8563S
	2	.43547	.48020	.51847	•56292	•K3248	. 70733	.77753	.83698	87095	.89949	.73165
	3	.54633	. 52595	•61957	.45774	.7196R	.78557	.84826	•90201	•93302	.95924	*OBROR
	4	12822	.46454	.49534	. 72020	.78718	.84406	.90644	.95692	• 98622	1.01112	1.01.48
	5	1630	• ~ ~ તમ	.75882	.79171	84540	.90316	.95892	1.00746	1.03579	1.05996	1.08777
	6	.75562	· 18826	*8160B	84753	.83921	• 95560	1.00940	1.05699	1.08492	1,10883	1.13628
	7	.81180	.84361	.87550	4510c	*36130	1.00/07	1.06088	1.10849	1.13661	1.16078	1.18865
	8	. 40775	*8468	•32561	. 621	1,406.78	1.4/226	3.11711	1,16605	1.19519	22038	1.24960
	4	92698	PERKE	045.40	1.01703	1,06013	1 12706	1.18526	1.22808	1.26994	1.29772	1.33018
	10	15600	1.03706	1.00000	1.00603	1.15276	1.22008	1.28932	1.35444	1.30460	1,43002	1.47167